WAGAN® TECH

Item no. 22941

AC Inverter™

1000 WATT

DC to AC Power Inverter

User's Manual

Slim Line 1000 Watt Power Inverter by Wagan Tech

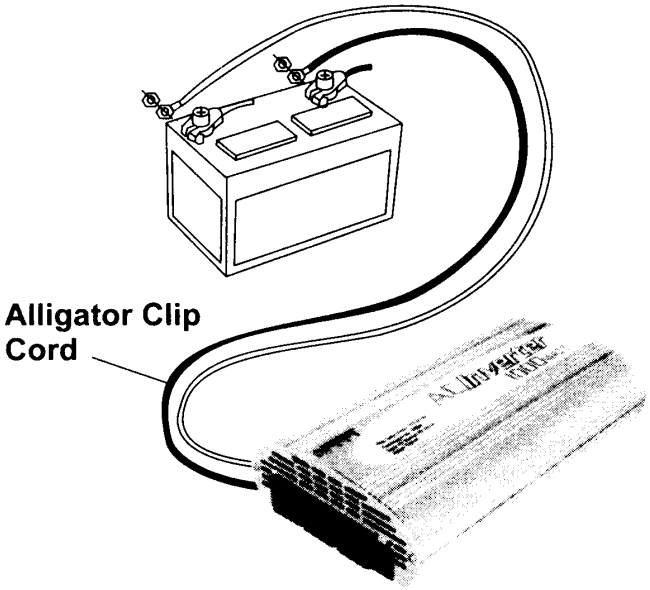
USER'S MANUAL — Please read before using this equipment.

Your 1000 Watt Power Inverter converts 12-volt vehicle battery power into 115 volts of AC power. You can use the inverter in your vehicle to operate many types of appliances that use AC power such as TVs, VCRs, portable computers, power tools, and lights for emergency or camping use.

The inverter works with your vehicle's engine turned on or off (accessory mode). It provides a continuous output of up to 1000 watts.

BASIC OPERATION

- Use the right operating voltage for both input and output of the inverter.
- Powering devices by connecting ⊕ from inverter to ⊕ of battery terminal and connect ⊖ from inverter to ⊖ of battery terminal.



- Turn ON the power switch that is located at the front of the inverter, and the green LED light will light as indicator that the unit at work.
- Insert the plug of your appliances into AC socket at the front of the inverter.

CAUTION

- DO NOT USE THE INVERTER IN A POSITIVELY GROUNDED VEHICLE.

RECOMMENDATION

- If the power inverter makes a beeping sound, turn OFF the power inverter and disconnect all appliances from inverter and disconnect the inverter from power supply. The beeping sound is simply the low battery warning, which indicates that the voltage of the battery power supply is getting low. Please restart the vehicle engine before operating the power inverter.
- When you are not using the inverter, turn the power switch to OFF and disconnect the inverter from power supply.
- Disconnect the inverter when starting the vehicle's engine.

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BATTERY USE

- If you choose to connect the inverter directly to your battery terminals, it is important to connect with right polarity (connect ⊕ from inverter to ⊕ of battery terminal and connect ⊖ from inverter to ⊖ of battery terminal)

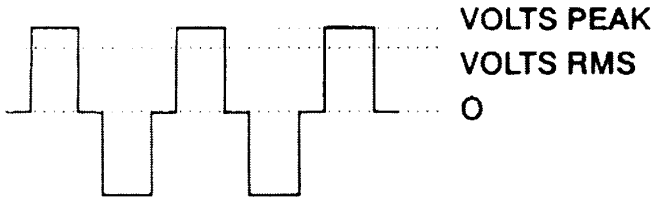
CAUTION

THE FOLLOWINGS OPERATION WILL DAMAGE AND VOID THE WARRANTY OF THE INVERTER:

- REVERSE POLARITY BY CONNECTING THE WIRES TO THE INCORRECT TERMINALS.
- CONNECTING THE BATTERY CHARGER TO REPLENISH BATTERY WITHOUT DISCONNECTING THE INVERTER FIRST.
- CONNECTING THE INVERTER TO POWER SOURCE GREATER THAN 15-VOLT DC.
- OPERATING THE INVERTER AND BATTERY IN OR AROUND WATER.

MEASURING THE AC VOLTAGE

The output waveform of the AC inverter is a MODIFIED SINEWAVE. To measure the AC output voltage, you must use a TRUE RMS VOLTMETER.



SAFETY PRECAUTION

Do not open the case of the inverter. The high voltage inside the unit is the same type of power as your electrical outlets at home.

Do not let the cord of the inverter or any appliance's cord get wet.

Do not operate the inverter in or around water. The voltage of the unit makes electrical shock hazard if operated in wet conditions.

Do not connect the AC inverter directly to another AC power source.

Keep it away from children, the inverter produces power just like your AC wall outlets at home and should be treated seriously.

Allow at least 2 inch of clearance around the inverter for airflow.

If you operate the inverter in a moving vehicle, you need to secure the inverter to prevent it from shifting around while the vehicle is moving.

If there is anything wrong with the inverter, disconnect all of the power.

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TROUBLESHOOTING

Condition	Solution
Poor contact	Clean contact parts thoroughly
Battery voltage is too low	Start the engine to recharge the battery. Replace the battery if needed.
Shutdown on overload	Reduce the wattage of inverter's load
Thermal shutdown	Allow the inverter to cool down by reducing the load or turn it off for a while.
Receptacle has no power	Check the receptacle wiring.

HINTS

Adding Extension Cord
If you need extension cord, we recommend the use of an extension cord between the AC output of inverter and AC appliances. You may use up to 100 ft. of high quality extension cord. A long cord will result in reduced output power.

Buzz in audio system
Some stereo systems and "boom boxes" will emit a buzzing noise from their loudspeakers when operated from the power inverter because the power supply in the device does not adequately filter the modified sine wave produced by the power inverter. The only solution is to use a sound system that incorporates a higher quality power supply.

Operating a TV
Picture tubes have a degaussing coil that uses a high initial surge of power to light up the screen from a "cold start". If the TV does not start up on the first try, switch ON the TV every 2 - 3 seconds until the screen comes on. Sometimes, it may take 2-5 tries before starting.

Television interference
Operating of the power inverter can interfere with television reception on some channels. If this situation occurs, the following steps may help to alleviate the problem.

1. Make sure that the chassis ground lug on the back of the power inverter is solidly connected to the ground system of your vehicles.
2. Do not operate high power loads with the power inverter while watching television.
3. Make sure that the antenna feeding your television provides an adequate ("snow free") signal and that you are using good quality cable between the antenna and the television.
4. Move the television as far away from the power inverter as possible.
5. Keep the cables between the battery and the power inverter as short as possible and twist them together with about 2 to 3 twists per foot. This minimizes radiated interference from the cables.

MAINTENANCE

Very little maintenance is required to keep the inverter operating properly.

DESCRIPTION

2500W Peak Power — allow you to power appliances that require a large amount of initial (peak) power to work (such as many TVs and motor-power equipments).

Low Battery Alarm — the inverter sounds an audible alarm then turns itself off if the source battery becomes too low.

Auto Shutdown/Reset Protection — the inverter temporarily shuts itself down to protect itself from overheating.

Overload/Short Circuit Protection — the inverter automatically turns itself off if the connected load is too high or if it shorts.

Fuse — the inverter comes with fuses already installed and can be changed if it is damaged.

Triple AC Outlets — allows you to power up to three appliances at the same time.

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HEAT DISPERSAL

The inverter generates heat while it is working. This is not a malfunction. However, if the inverter gets too hot while working, it will turn off by itself.
Position the inverter where air flows freely around it to allow the heat to disperse.
The inverter's thermal protection prevents it from operating when its temperature exceeds 130 ± 10 °F / 55 ± 5 °C.

SPECIFICATION

Name	Description
Input	12V (10-15V) DC
Output	115V AC
Output frequency	60 Hz
Output waveform	Modified Sine Waveform
Continuous power	1000 Watt
Surge power	2500 Watt
Efficiency	Approx. 90 %
No load current	< 0.95 A
Battery low alarm	10.5 ± 0.5 V DC
Battery low shutdown	9.5 ± 0.5 V DC
Alarm and thermal shutdown	130 ± 10 °F / 55 ± 5 °C
Internal DC fuse	40 A x 3
External DC fuse	None
AC output socket	3 outlets of 3-prong
Power switch	DC input ON/OFF control
Dimensions (LxWxH)	10.7 x 5.4 x 2.1 in^3
Net Weight	3.5 lb

NOTE

All specifications are typical at nominal line, half load, and 77 °F / 25 °C unless otherwise noted.
Specifications are subject to change without notice.

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WAGAN Corp. Limited Warranty Registration Form

All WAGAN Corporation products are warranted to the original purchaser of this product.
Warranty Duration: This product is warranted to the original purchaser for a period of one (1) Year from the original purchase date, to be free of defects in material and workmanship. WAGAN Corporation disclaims any liability for consequential damages. In no event will WAGAN Corporation be responsible for any amount of damages beyond the amount paid for the product at retail. In the even of a defective item, please ship the item, prepaid, with a complete explanation of the problem, your name, address and daytime phone number. WAGAN Corporation will, at its option, replaces or repair the defective part. This warranty is void if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repairs by unauthorized personnel or other causes not arising out of defects in materials or workmanship. This warranty is effective only if the product is purchased and operated in the USA and does not extend to any units which have been used in violation of written instructions furnished.
Warranty Disclaimers: This warranty is in-lieu of all warranties expressed or implied and no representative or person is authorized to assume any other liability in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure under any theory of tort, contract or commercial law including, but not limited to negligence, gross negligence, strict liability, breach of warranty and breach of contract.
Warranty Performance: During the above one (1) Year warranty period, a product with a defect will be replaced with a comparable model when the product is returned to WAGAN Corporation with an original store receipt. The replacement product will be in warranty for the balance of the one (1) Year warranty period.

- Please activate my limited warranty for WAGAN Corp.
- Enclosed copy of original sales receipt.

Slim Line 1000 Watt Power Inverter

Name			
Mail Address			
City			
State, Zip Code			
Item Purchased	Slim Line 1000 Watt Power Inverter		
Stores Name			
Date of Purchase			
Signature		Date	

All WAGAN Corporation Products must be registered within (30) days of purchased to activate this warranty. Mail the complete registration form, along with a copy of the original receipt to:

Attn: Customer Service
WAGAN Corporation
3589 Yale Way
Fremont, CA 94538

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WAGAN AC INVERTER APPLICATION CHART

	Power Needed	150 Watts	175 Watts	400 Watts	700 Watts	1000 Watts
Cellphone & Camcorder Charger	20 Watts					
Laptop Computer / Digital Camera	38-45 Watts					
CD Player / Mini Stereo / VCR	50 Watts					
Portable Refrigerator / 9" TV	60 Watts					
Automotive Buffer / 13" TV	77 Watts					
Portable Rotary Hand Tool	99 Watts					
100 Watt Light / 12" Electric Fan / 19" Color TV	100 Watts					
Rotary Power Tool / Finishing Sander	126-176 Watts					
Portable 3/8" Electric Drill	220 Watts					
Jigsaw / 6" Bench Grinder	232-250 Watts					
Printer / Computer / Fax	300 Watts					
Electric 3/8" Drill	350 Watts					
Blender	450 Watts					
Sewing Machine	500 Watts					
Portable Vacuum	525 Watts					
Coffee Machine	600 Watts					
Microwave	650 Watts					
Heavy Duty Reciprocating Saw	720 Watts					
Hair Dryer	900 Watts					

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Item no. 22941

AC Inverter

1000 WATT

Power Tools

Mobile Electronics

Tools and TV

2500WATT Peak Power

DC to AC Power Inverter

- Run AC Equipment in Car, SUV, Boat & RV
- Three Household AC Outlets
- High Peak Wattage for Electronics & Tools
- Adv. Microprocessor Controlled MOSFET

WAGAN® TECH

AC Inverter 1000 WATT

- Run & Charge 115 V Equipment in Your Vehicle
- Connect to Any 12 volt Battery Power
- Operate with Engine Turned On/Off
- Auto Reset Short Circuit Protection
- Built-In Safety Features & Replaceble Fuse
- Overload Protection/Low Battry Alarm/Low Battry Shutdown

HOME ELECTRONICS

Large Screen TV, TV/VCR Combo, Camcorder, VCR, Power Strip, CD Changer Mini System, Hi-Fi Stereo, Radio, Video Games,...

APPLIANCES

Sewing Machine, 16" Desk Fan, Can Opener, Small Refrigerator, Mixer, Curling Iron,...

SAMPLE APPLICATIONS

MOBILE OFFICE

Desktop Computer, Laptop Computer, Fax/Printer/Copier Combo, Projector, Cellular Phone, Small Copier, Battery Charger, Typewriter,...

POWER TOOL

Power Jigsaw, 1/2 hp Power Saw, Power Tool, 1/5 hp Pump, 3/8" Drill, Soldering Gun, Work Light, 1/5 hp Induction Motor, Belt Sander, Single Range Electric Stove,...

SPECIFICATIONS

Peak Surge Power	2500 Watt
A/C Voltage Output	115V
Optimum Efficiency	90%
No Load Current Draw	Less than 0.95A
Output Wave Form	Modified Sinewave
Input Voltage Range	10-15V
Low Battery Alarm	DC 10.5V+/-0.5V
Auto Low Battery Shut-Down	DC 9.5V+/-0.5V
Thermal Protection Cooling Fan	Yes
AC Receptacles	Triple

1 Year Warranty